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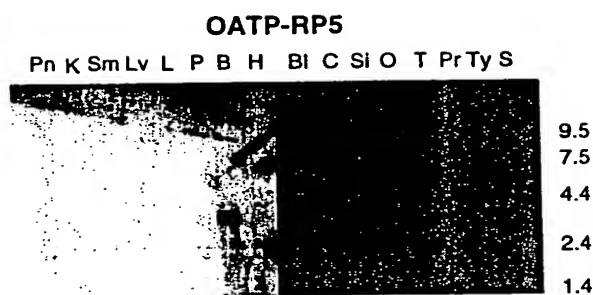
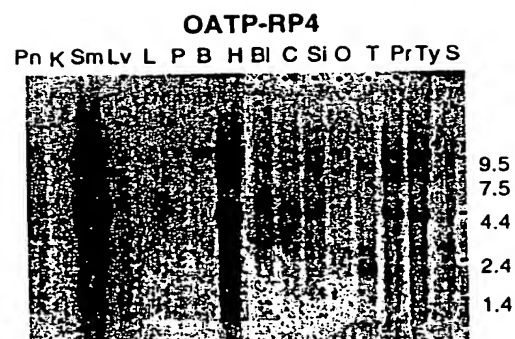
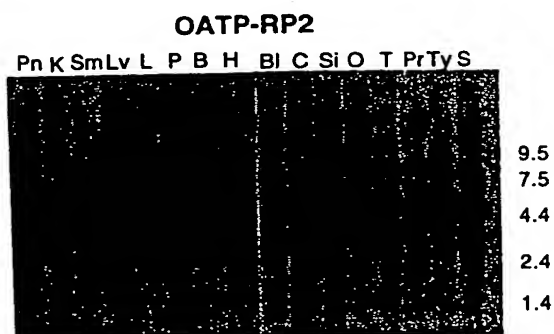
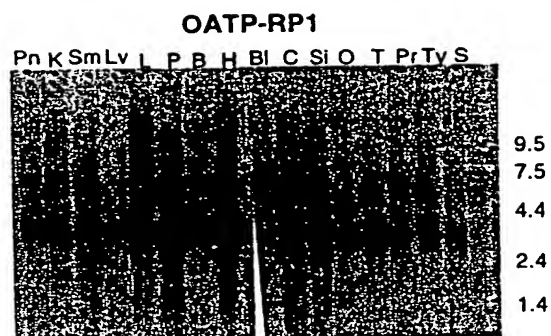
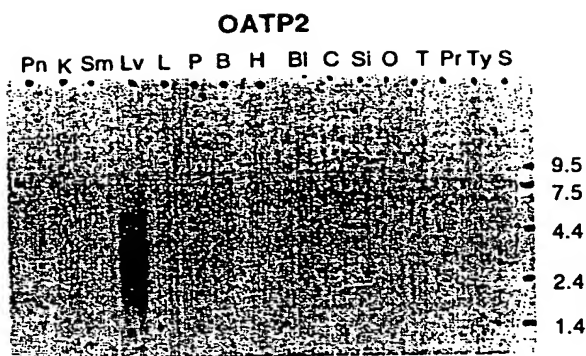
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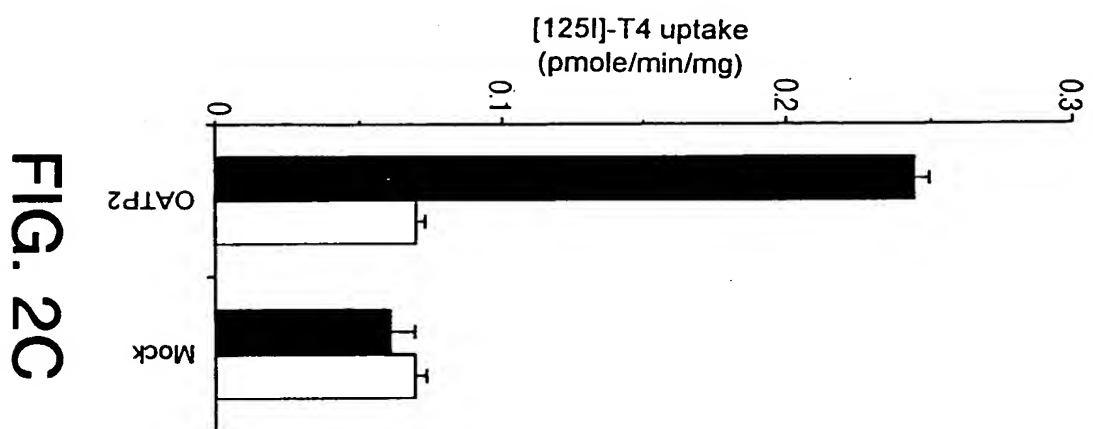
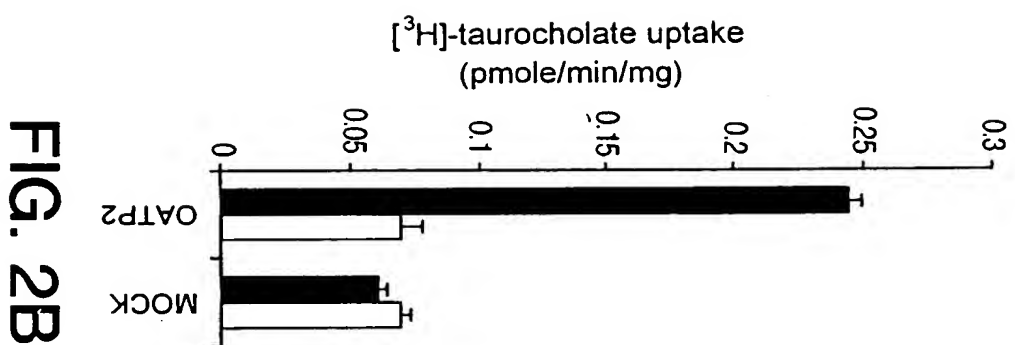
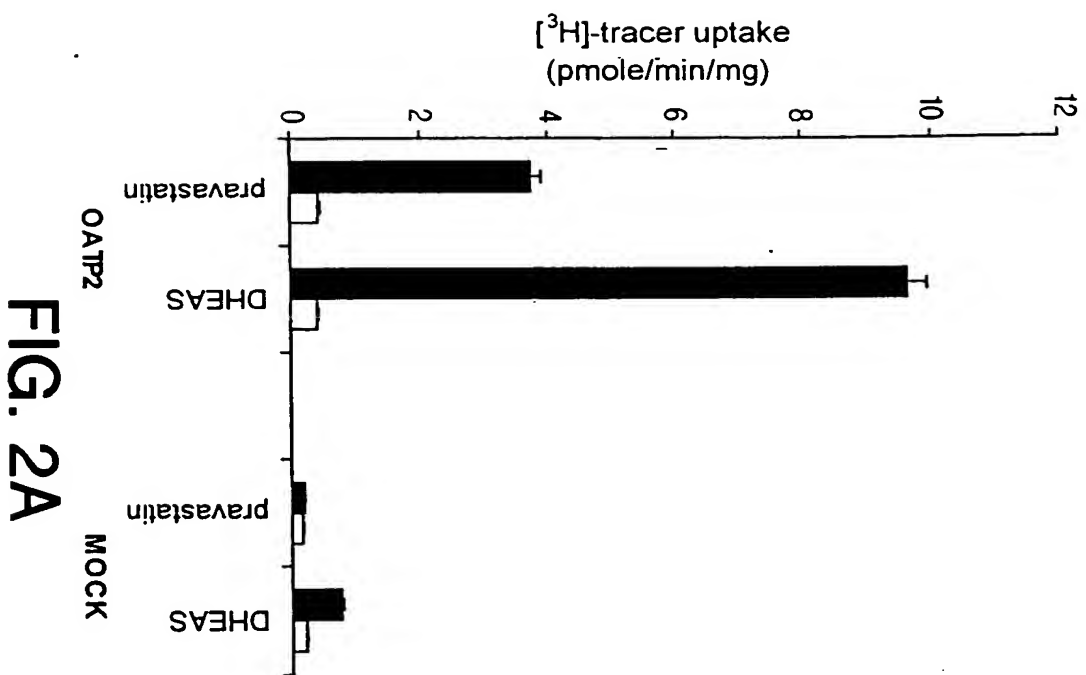
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Tissue Key

H: heart	S: spleen
B: brain	Ty: thymus
P: placenta	Pr: prostate
L: lung	T: testis
Lv: liver	O: ovary
Sm: skeletal muscle	Si: small intestine
K: kidney	C: colon
Pn: pancreas	Bl: peripheral blood leukocytes

-FIG. 1



1

```

roatp2      .....
roatp3      .....
roAT-K1     .....
roatp1      .....
hoATP       .....
hoATP-RP5   .....m
hoATP2      .....
hoATP-RP3   .....
hPGT        .....
hoATP-RP2   .....
hoATP-RP4   .....
hoATP-RP1   .....
C ns nsus   -----

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81

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roatp2      .....
roatp3      .....
roAT-K1     .....
roatp1      .....
hoATP       .....
hoATP-RP5   .....
hoATP2      .....
hoATP-RP3   .....
hPGT        .....
hoATP-RP2   .....
hoATP-RP4   .....
hoATP-RP1   .....
Cons nsus   -----

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160

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.....m G.....k sEkrvAthg. .vrCFakIKm FLLALtCAyv sksLs.GtYM nSmLTQIERq
.....m G.....e tEkrvAthg. .vrCFskIKm FLLALtWAvv sqsLs.GiYM ntMlTQIERq
.....m G.....d lEkgaAthg. .agCFakIKv FLmALtCAyv sksLs.GtFM sSmLTQIERq
.....m e.....e tEKKiAtqe. .grlFskmKv FLLsLtcAc1 tksLs.GvYM nSmLTQIERq
.....m G.....e tEkriethr. .irClsklKm FLLAitCAfv sktLs.GsYM nSmLTQIERq
dtsskeniql fcktsvq.pv Gr...psfk tEypsseek. .qpCcgeIKv FLcALsfvyf akaLa.egYl kStiTQIERR
.....mdqnq.hl n.....kt aEaqpsenkk .trycnGLKm FLaALslsfi aktLg.aiiM kSsihiERR
mqqkpggss gggrsge.lq G.....de agrnkkkkkk .vsCFsnIKi FLvsecalm1 aggtv.GaYl vSvLTtlERR
.....mg llpklgv.sq G.....sd tstrAgrca .rsvFgnIKv FvLcqgllql cqlLy.sayf kSsLTtIEkR
.....mgent.pg G.....k asdpqgivr. .psvFhnIKl FvLchsl1ql aqlmi.sgYl kSsistvEkR
pssapstsa glgdcnh.rv dlsktfsvss alamlqerrc lyvvltdsrc FLvcmcf1tf iqalmvsgYl sSviTtIERR
qlwaekhgar gthevryxa G.....qsv acgwwAfapp clqvlntpKg ilfflcaAaf lqgmtvngfi ntviTslERR
-----G-----E----A----- ---CF---IK- FLLAL--A--- ---L--G-YM -S-LTQIERR

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FIG. 3A

roatp2	FgIptSiVGL	InGSFEIGNL	LLiIFVSYFG	tKLRHPimIG	VGcavMGLGc	fLisLPHFfLM	GqYEYEt...	ilptsNvsSn
roatp3	FdIptSiVgf	InGSFEIGNf	LLiIFVSYFG	tKLRHPimIG	VGcviMGLGc	fLmsLPHFfLM	GrYEYEt...	isptsNlsSn
roAT-K1	FgIptaiVgf	InGSFEIGNL	LLiIFVSYFG	mKLRHPivIG	VGcavMGLGc	fiisLPHFfLM	GrYEYEt...	ilptsNlsSn
roatp1	FdIstSvaGL	InGSFEIGNL	ffIVFVSYFG	tKLRHPvVIG	igCviMGLGc	lLmsLPHFfM	GrYEYEt...	isptgNlsSn
hoATP	FnIptSlVgf	InGSFEIGNL	LLiIFVSYFG	tKLRHPimIG	igCvvMGLGc	fLksLPHFfLM	nqYEYEst...	vsvsgNlsSn
hoATP-RP5	FdIpSSlVgv	IdGSFEIGNL	LvItFVSYFG	aKLRHPkiIG	aGCviMGvGt	lLiamPqfM	eqkYEr...	yspssNstls
hoATP2	FeISslVgf	IdGSFEIGNL	LvIVFVSYFG	sKLRHPklIG	igCfiMGiGg	vLtalPHFfM	GyYrYsketn	idsseNstSt
hoATP-RP3	FnlqSadVGv	IassFEIGNL	aLIlFVSYFG	argHRPrliG	cGgivMaLga	lLsalPeFLt	hqkYEag...	.eirwgaegr
hPGT	FglSSssGL	IsslnEIsNa	iLIiFVSYFG	srVHRPrliG	igGlfLaagA	fiLtLPHFfLs	epYqYtla...	.stgnNsrlq
hoATP-RP2	FglSSqtsGL	lasfnEvGnt	aLIvFVSYFG	srVHRPrmIG	yGailvaLag	lLmtLPHFfIs	epYrYdnts...	.pedmpqdfk
hoATP-RP4	yslSSesGL	lvscFdIGNL	vvvFVSYFG	grgrRPplwa	vGglliafGa	alfalPHFfIs	ppYqiGe...	..lnasapnd
hoATP-RP1	ydlhSyqsGL	IasSydiaac	LcltFVSYFG	gsgHkPrwIG	wGvllMGtGs	lvfalPHFfTa	GrYEVEl...	.....dagvr
Consensus	F-I-SS-VGL	I-GSFEIGNL	LLI-FVSYFG	-KLHRP--IG	-GC--MGLG-	-L--LPHFfLM	G-YEYE----	-----N--S-

roatp2	sffCveNrSq	.....tLnPt	qD..psECvK	Emk.SLMWIY	VLVG...NIi	RGIGETPImp	LGISYieDFA	KsENSPLYIG
roatp3	sflCmeNrSq	.....tLkPt	qD..paECiK	Emk.SLMWIY	VLVG...NIi	RGIGETPImp	LGISYieDFA	KsENSPLYIG
roAT-K1	sflCmeNqtq	.....tLnPa	qD..paECvK	Evk.SLMWIY	VLVG...NIi	RGIGETPImp	LGvSYienFA	KsENSPLYIG
roatp1	sflCmeNrtq	.....tLkPt	qD..paECvK	Emk.SLMWic	VmVG...NIi	RGIGETPIvP	LGISYieDFA	KsENSPLYIG
hoATP	sflCmeNgtq	.....iLrPt	qD..psECtK	Evk.SLMwvY	VLVG...NIv	RGmGETPIlP	LGISYieDFA	KfENSPLYIG
hoATP-RP5	ispCllesSs	qlpvsvmeks	kskisnECev	dtS.SsMWIY	VfLG...NlL	RGIGETPIqP	LGiaYlDDFA	sedNaafYIG
hoATP2	lstClINqil	s....lnras	peivgkgClk	Esg.SyMWIY	VfmG...NmL	RGIGETPIvP	LGlSYIDDDFA	keghSsLYlG
oATP-RP3	.dvCaaNgSg	g....degPd	pD...liCrn	rta.tnMmyl	lliGa...qVL	lGIGatPvqP	LGvSYIDDDhv	rrkdSsLYIG
hPGT	aeLCqkhwqd	.....LpPs	kchsttqnpq	ket.SsMWgl	mvVa...qLL	aGIGtVPIqP	fGISYvDDFs	epsNSPLYIs
hoATP-RP2	asLClpttSa	p....asaPs	ng..ncssyt	Etq.hLsvvg	imfva..qtL	lGvGgvPIqP	fGISYivDFA	hnsNSPLYlG
hoATP-RP4	.gLCqggnSt	a....tLeP.	p.....aCpK	dsggnhWvY	lalficaqIL	igMgstPIyt	LGptYlDDnv	KkENSsLYla
hoATP-RP1	..tCpaN...	.....P.	....gavCad	stsglsryql	Vfmlg..qfL	hGvGaTPlyt	LGvtYlDenv	KsscSPvYia
Cons nsus	--LC--N-S-	-----L-P-	-D-----EC-K	E---SLMWIY	V-VG---NIL	RGIGETPI-P	LGISYIDDDFA	K-ENSPLYIG

FIG. 3B

321
 roatp2 ILeTgmtiGP liGllLaSSc AnIYVDiesV NTddLtITPt DtrWVGAWWi GFLvCAGvni LtsfPFFFFFP KtLP...KeG
 roatp3 ILeTgkvfGP ivGllLGsFc AsIYVDtGsv NTddLtITPt DtrWVGAWWi GFLiCAGvni LssIPFFFFFP KtLP...KeG
 roAT-K1 ILeTgkmiGP ifGllLGsFc AsIYVDtGsv NTddLtITPt DiRWVGAWWi GFLvCAGvni LiSIPFFFFFP KtLP...KeG
 roatp1 ILeMgkvaGP ifGllLGsYc AqIYVDiGsv NTddLtITPs DtrWVGAWWi GFLvCAGvni LtsIPFFFFFP KaLP...KkG
 hOATP lveTgaiiGP liGllLaSfc AnvYVDtGfv NTddLiITPt DtrWVGAWWf GFLiCAGvni LtaIPFFFFFP ntLP...KeG
 hOATP-RP5 cvqTvaaiGP ifGllLGsLc AKlYVDiGfv NldhitITPk DPqWVGAWWl GYliagiisl LaavPFwylP KsLP...rsq
 hOATP2 ILnaiamiGP iigftLGsLf skmYVDiGyv dlstirITPt DsRWVGAWWl nFLvsGlfsi isSIPFFFFFP qtpn...Kpq
 hOATP-RP3 ILftmlvfGP acGfiLGsFc tkIYVDavfi dTsnLdITPd DPRWiGAWWg GFLlCgallf fssllmFgFP qSLPphsdpa
 hPGT ILfaisvfGP afGylLGsIm lqIfVDyGrV NtaavnlvPg DPRWiGAWWl Gllissallv LtsfPFFFFFP ramP...iG
 hOATP-RP2 ILfadvmmGP glafgLGsIm lrIYVDinqm peggisITik DPRWVGAWWl GFLiaAGava LaaIPYFFFFFP KempPkekrel
 hOATP-RP4 ImyvmgalGP avGylLGgll igfYVDp... .rnpvhldqn DPRfiGnWWS GFLlCAiamf LvifPmFtFP KkLPprhKkk
 hOATP-RP1 IfyTaaailGP aaGylIGgal lnIYtemG.. .rrtelTte sPlWVGAWWv GFLgsgaaaf ftavPilgyp rqlP...gs
Consensus IL-T----GP --G-LLGS-C A-IYVD-G-V NTD-L-ITP- DPrWVGAWW- GFL-CAG--- L-SIPFFFFFP K-LP---K-G

401
 roatp2 lq..enVdgt e.....n akekhrkka k..... .eekegit KDFfvmKsL scNpiYmLfi LisVLQfNaf
 roatp3 lq..ddVdgt n.....n dkeekhrekka k..... .eenrgit KDFlpfmKsL scNpiYmLli LtsVLQiNaf
 roAT-K1 lq..enVdgt e.....n akeestekrp r..... .kknrgit KDFfpfLKsp vlqPdlhavh pykVLQvNaf
 roatp1 qq..enVavt k.....d gkvekyggqa r..... .eenlgit KDFltfmKrl fcNpiYmLfi LtsVLQvNgf
 hOATP le..tnadii k.....n enedkqkeev k..... .kekygit KDFlpfmKsL scNpiYmLfi LvsViQfNaf
 hOATP-RP5 sr..edsnss sekskfii.d dhtdyqtpqg en..... .akimema rDFlpSlKnL fgNPvYfLyL ctstvQfNsl
 hOATP2 ke..rkasls lhvletn..d ekdqtanltn qg..... .knitknv tgFfqsfKsi LtNPlYvmfv LltllQvssy
 hOATP-RP3 mes.eqamls ereyerpkps ngvlrhplep dss..... .ascfqql rvipkvtkhL LsNPvftcii Laacmeiaavv
 hPGT ak...rapat a.....d earkleeaks r..... .gslvdfi KrFpciflrL LmNslfvLv Laqctfssvi
 hOATP-RP2 qfr.rkvLav tdsparKgd spskspges tkkgdglvqi apnlTviqfi KvFprvllqt LrhPiflLv LsqVclssma
 hOATP-RP4 kkkkfsVdav sddvLkeks nnseqadkv ss..... .mgfgkdv rDlpraavri LsNmtflfvs Lsytaesaiv
 hOATP-RP1 qr..yaVmra a..em....h qlkdssrgea sn..... .pdfgkti rDlplsivll LkNptfillc Lagateatli
Consensus -----V--- -----K-L L-NP-Y-L-- L--V-Q-N--

FIG. 3C

481
 roatp2 insftFmPKY LEQYVGkSta evvFLmGlym LppiclGyli GGLIMKKFKV tvkkaAhLaf wLcLseYLLs flsYvmtCdN 560
 roatp3 inmftFLPKY LEQYVGkSta evvLLiGvyn LppiciGyll igfIMKKFKi clSLfeYLLy flhFmitCdN
 roAT-K1 niyfsFLPKY LEQYVGkSta eviFLmGvyn LPaiciGyli agfmMKFKi tvktaAaflrf clSLseYsfg fcnFlitCdN
 roatp1 inkftFLPKY LEQYVGkSta eAiFLiGvys LPpiciGyli GGLIMKKFKi tvkkaAAYLaf clSvfeYLLf lchFmltCdN
 hOATP vnmisFmPKY LEQYVGiSS dAiFLmGiyn LPpiciGyii GGLIMKKFKi tvkqAAhigc wLSLleYLLy flsFLmtCeN
 hOATP-RP5 fGmVtykPKY iEQYVGqSS rAnFviGlin iPavalGifs GGivMKFKri sVcgAAkLyl gSSvfgYLLf lslFalgCeN
 hOATP2 iGafTyvfkY vEQYVGqSS kAniLLgvit iPiFasGmfl GGyIiKKFKl ntvgiAKfsc ftavmslsfy llyFfilCeN
 hOATP-RP3 aGfaaFLgKY LEQQfnltts sAnqLLGmta iPcaClGifl GGllvKKlsl salgAirmAm lvnLvstacy vsflflgCdt
 hPGT aGlsTFLNkf LEkQYGTsaa yAnFLiGavn LPaaalGmlf GGilMKrFvf slqtipriAt tiitismiLc vplFfmgCst
 hOATP-RP2 aGmatFLPKf LErQfsitas yAnLLiGcls fpsvivGivv GGvLvKrlhl gpvvcgaLcl lgmLlclffs lplFfigCss
 hOATP-RP4 tafiTFiPKf iEsQfGipas nAsiytGvii vPsagvGivl GGyIiKKlKl garesAkLAM icSgvslLcf stlFivgCes
 hOATP-RP1 tGmsTFSPkf LEsQfslSas eAatLfGylv vPagggGtfl GGffvnlrl rgsavikfcl fctvvsllg. ilvFslhCps
 Cons nsUs -G--TFLPKY LEQYVG-S-S -A-FL-G--- LP--C-G--- GG-IMKKFK- -V--AA-LA- --SL--YLL- ---F---C-N

561
 roatp2 fpVAGLTtSY eGvqhqlYVE nkvlADCNtr CnCstntWdp VCG.dNGlay mSACLAGCe. .kSvGTGTN mVFq.NCSCI
 roatp3 fpVAGLTalY eGvhhpLYVE nkvlADCNrg CSCstnsWdp VCG.dNGlay mSACLAGck. .kSvGTGTN mVFq.NCSCI
 roAT-K1 vpVAGLTnSY erdqkplyLE nnvlADCNtr CSCltktWdp VCG.dNGlay mSACLAGce. .kSvGTGTN mVFh.NCSCI
 roatp1 aaVAGLTtSY kGvqhqlhVE skvlADCNtr CSCstntWdp VCG.dNGvay mSACLAGck. .kfVGTGTN mVFq.dCSCI
 hOATP ssVvGintSY eGipqdlyVE ndifADCNvd CnCpskiWdp VCG.nNGlsY lSACLAGce. .tSiGTGiN mVFq.NCSCI
 hOATP-RP5 sdVAGLTvSY qGtKpvsyHE ralfsDCNsr CkCsetkWeP mCG.eNGitY vSACLAGCq. .tSnrsGxN iIFy.NCtCv
 hOATP2 ksVAGLTmtY dGnnpvtshr dvplsyCNsd CnCdesqWeP VCG.nNGitY iSpCLAGck. .sSsGnkKp iVFy.NCSCI
 hOATP-RP3 gpVAGvTvpY .Gnstapgsa ldpyspCNnn CeCqtdsftP VCG.adGity lSACfAGcn. .stnlTG.CaCl
 hPGT ptVAevypps .tss.sihp qs..paCrrd CSCpdsifhp VCG.dNGieY lSpChAGCsn inmSsaTskq liyl.NCSCv
 hOATP-RP2 hqiAGiThqt ...sahpgle ls..psCmea CSCpldgfnP VcdpstrveY itpChAGCss wvvdaldns qVFytNCSCv
 hOATP-RP4 inlgGinipY ttgpsltmph rnltgsCNvn Cgckiheyep VCG.sdGity fnpCLAGCv. .nSgnlstg irnyteCtCv
 hOATP-RP1 vpmAGvTaSY .Ggsllpegh lnltApCnaa CSCqpehysP VCG.sdGlmY fSlChAGCpa atetnvdGqk .Vyr.dCSCI
 Consensus --VAGLT-SY -G-----E ----ADCN-- CSC-----W-P VCG--NG--Y -SACLAGC-- ---S-GTG-N -VF--NCSCI

FIG. 3D

641
 roatp2 qS..... SGNSS..... .AVLGLcNkg PdCankLqYF LiiaifgcFI ySLagIPGYM VLLRCiKsEE
 roatp3 rS..... SGNSS..... .AVLGLcKkg PeCankLqYF LimsvigSFI ySItaiPGYM VLLRCiKpEk
 roAT-K1 qS..... pGNSS..... .AVLGLcNkg PeCtnkLqYl LilsgflSIl ySfaaiPGYM VFLRCiKsEE
 roatp1 qS..... lGNSS..... .AVLGLcKkg PeCanrLqYF LiltiilSFI ySLtaIPGYM VFLRCVKsEE
 hoATP qT..... SGNSS..... .AVLGLcDkg PdCslmLqYF LilsamsSFI ySLaaIPGYM VLLRCmKsEE
 hoATP-RP5 gIa.....ask SGNSS..... .gIvGrCqKd ngCpQmflYF LvisvitSyT lSLggIPGYi lLLRCiKpql
 hoATP2 eVt.....glq nrNyS..... .AhLGeCprD daCtRkfyfF vaiqVnlLf salggtshvM livkiVqpEl
 hoATP-RP3 tTv.....p.. aeNat..... .vVpGkCp.s PgCqeafLTf lCvmciCSlI gamaqtPsvi iliRtVspEl
 hPGT tG..... .GsAS..... .AktGsCp.. vPcaHfLLpa iflisfvSlI acishnPLYM mVLRvVnqEE
 hoATP-RP2 vE..... .GNp..... .vLaGScD.. stCshlvvpF lllvslgSal acLthtPsfM liLRgVKkEd
 hoATP-RP4 qSrQvitpPt vGqRSqlrvv iVktYlneng yAVsGkCkr. .tCntlip.F LvflfivtFI tacaqpsaii vTLRsVedEE
 hoATP-RP1 pQn.....ls sGfgh..... .AtaGkCt.. stCqrkpl.1 LvfiFvviFf tflssIPalt atLRCVrdpQ
 Cons nsus ----- -GNSS----- -AVLG-C-K- P-C----L-YF L-----SFI -SL---IPGYM V-LRCVK-EE

721
 roatp2 KSLgvGLHaf ciRiLAGIPA PIYFGALIDr TCLHWGTLkC GepGACRmYD insFRrlYLG LpaALRgaSf vpaffILrLt
 roatp3 KSLgiGLHaf ctRvFAGIPA PIYFGALIDr TCLHWGTLkC GepGACRmYn innFRriYLV LpaALRgsSy LpalfiLiLm
 roAT-K1 KSLgiGiHaf ciRvFAGIPA PIYFGALIDr TCLHWGTqkC GapGr.RmYD insFRriYLG msaALRgsSy LpafvIvilt
 roatp1 KSLgvGLHtf ciRvFAGIPA PvYFGALIDr TCLHWGTLkC GqRGACRmYD insFRhiYLG LpiALRgsSy LpaffiLiLm
 hoATP KSLgvGLHtf ctRvFAGIPA PIYFGALmDs PvYFGVLIDt SCLkWGfkrC GsrGsCRLYD sttFRyiYLG LpaALRgsSf vpaliLiLiL
 hoATP-RP5 KSfALGiYt1 aiRvLAGIPA PvYFGVLIDt viRaLgGila PIYFGALIDt TCikWStnnC GtrGsCRtYn stSfSrvYLG LssmLRvSSl vlyiiliyam
 hoATP2 KSLALGfHsm viRaLgGila PIYFGALIDt lLrILgfIPp PlIFGAGIDs TCLfWst.fc GeqGACvLYD nvvyRylyVs iaiALksfaf ilyttttwqcl
 hoATP-RP3 KSfAiGvqf1 lmrILAWlPs PalyGLtIDh lmrILAWlPs PalyGLtIDh sCirrWnslcl GrrGACayYD ndalrdRYLG LqmgYkaLgm LllcfIsrvv
 hoATP-RP2 KtLAVGiQfm flRiLAWmPs PviHGsaIDt flRiLAWmPs PviHGsaIDt TCvHWal.sC GrravCRyYn ndllRnrfig LqfffkgtSv icfalvLav1
 hoATP-RP4 rpfALGmqfv lLrLAYIPt PIYFGAVIDt TCmlWqq.ec GvqGsCweYn vtsFRfvYfG LaagLkfvgf ififlawysi
 hoATP-RP1 rSfALGiQwi vVRiLgGIPg PlafGwVIDk aCLlWqd.qC GqqGsClvYq nsamsryLi mgllYkvlgv LffaiaacflY
 Consensus KSLA-G-H-- --R-LAGIPA PIYFGALID- TCLHWGT--C G--GACR-YD ---FR--YLG L--ALR--S- L-----IL-L-

FIG. 3E

801
 roatp2 R.....tfq fpqd...Ies Sk.....tdha emkltlKESe cTevlrs.kv t..eD.....
 roatp3 R.....Kfq fpge...Ids SE.....tela emkitvKkSe cTdvHgspqv e..nDgElkT rl.....
 roAT-K1 R.....Kfs lpgk...Ins SE.....meia emklteKESq cTdvHrnpkf k..nDgElkT kl.....
 roatp1 R.....Kfq fpqd...Ids Sa.....tdht emmlgeKESe hTdvHgspqv e..nDgElkT kl.....
 hoATP R.....Kch lPge...naS Sg.....teli etkvkgKEne ckdiyqkstv l..kDdElkT kl.....
 hoATP-RP5 k.....Kny vskhrsfItk rE.....rtmv strfq.KEny tTsdHllqpn y..wpgke.T ql.....
 hoATP2 k.....Kky gekd...Ina SE.....ngsv mdean.lESl nknkHfvpsa g..aDsEthc
 hoATP-RP3 Rkny...Kry iknheggIst SEff.astlt ldnlgdrpvp anqthrtkfi ynlDhEwce nmesv1.....
 hPGT k.....Knk .eyn...vqk aa.....gli
 hoATP-RP2 Rqqd...Kea rtke...srS Sp.....ave qgllvsgpgk kpedsr.....
 hoATP-RP4 kykedglqrr rqrefplstv SErvghpdna rtrscpaft qgefHeetgl qkgiqcaaqt ypgpfpeais ssadpglees
 hoATP-RP1 k.....Pls...eS Sd...gletc lpsqssapds atdsqqlqssv
 Consensus R-----K-- -P-----I-S SE-----KES- -T--H-----D-E--T -----

881

roatp2
 roatp3
 roAT-K1
 roatp1
 hoATP
 hoATP-RP5
 hoATP2
 hoATP-RP3
 hPGT
 hoATP-RP2
 hoATP-RP4 paalepxs
 hoATP-RP1
 Consensus -----

FIG. 3F